

## WHAT IS CLAIMED IS:

## 1. An optical disk comprising:

a first substrate having a recording layer thereon, information to be recorded on the recording layer being reproducible with irradiation of a laser beam;

a reflective layer formed on the recording layer;

a second transparent substrate, the laser beam being incident to the second substrate in reproduction; and

a bonding layer provided between the first and the second substrates, the substrates being bonded to each other by the bonding layer via the reflective layer, the bonding layer including ultraviolet-hardened resin and at least one type of photochromic dye, the photochromic dye being stable against the laser beam.

2. The optical disk according to claim 1 further comprising a semi-transparent reflective layer formed on another recording layer provided on the second transparent substrate, the substrates being bonded to each other so that the reflective layers face each other at surfaces thereof opposite to other surfaces thereof formed on the recording layers.

## 3. An optical disk comprising:

a transparent substrate having a recording layer thereon, information to be recorded on the recording layer being reproducible with irradiation of a laser beam;

a reflective layer formed on the recording layer; and

a hardcoat layer formed on a surface of the substrate opposite to another surface thereof having the recording layer thereon, the laser beam being incident to the hardcoat layer in reproduction, the hardcoat layer including ultraviolet-hardened resin and at least one type of photochromic dye, the photochromic dye being stable against

the laser beam.

4. An optical disk comprising:

- a first substrate having a recording layer thereon, information to be recorded on the recording layer being reproducible with irradiation of a laser beam;

- a reflective layer formed on the recording layer; and

- a second transparent substrate, the laser beam being incident to the second substrate in reproduction;

- a bonding layer provided between the first and the second substrates, the substrates being bonded to each other by the bonding layer via the reflective layer; and

- a hardcoat layer formed on the second substrate at a surface thereof through which the laser beam is incident to the second substrate in reproduction, the hardcoat layer including ultraviolet-hardened resin and at least one type of photochromic dye, the photochromic dye being stable against the laser beam.

5. An optical disk comprising:

- a first transparent substrate having a first recording layer thereon, information to be recorded on the first recording layer being reproducible with irradiation of a first laser beam;

- a first reflective layer formed on the first recording layer;

- a second transparent substrate having a second recording layer thereon, information to be recorded on the second recording layer being reproducible with irradiation of a second laser beam;

- a second reflective layer formed on the second recording layer;

- a bonding layer provided between the first and the second substrates, the substrates being bonded to each other by the bonding layer via the first and the second reflective layers;

- a first hardcoat layer formed on the first substrate

at a surface thereof through which the first laser beam is incident to the first substrate in reproduction, the first hardcoat layer including ultraviolet-hardened resin and at least one type of photochromic dye, the photochromic dye being stable against the first laser beam; and

a second hardcoat layer formed on the second substrate at a surface thereof through which the second laser beam is incident to the second substrate in reproduction, the second hardcoat layer including ultraviolet-hardened resin and at least one type of photochromic dye, the photochromic dye being stable against the second laser beam.